

DISTRIBUTED GENERATION INTERCONNECTION
STANDARDS AND PROCEDURES TARIFF

Page 30 of 97

level of harmonics that a given piece of equipment can tolerate nor is it making a recommendation as to the permissible level in the Interconnecting Customer's Facility.

4.1.3 Frequency

The interconnected electric power system in North America, which is maintained at 60 hertz ("Hz") frequency on its alternating current services, is subject to certain deviations. The usual maximum instantaneous deviation from the standard 60 Hz is $\pm 2/10$ cycle $\pm(0.33\%)$, except on infrequent occasions when the deviation may reach $\pm 1/10$ cycle $\pm(0.17\%)$. The usual normal deviation is approximately $\pm 1/20$ cycle $\pm(0.083\%)$. These conditions are subject to occur at any time of the day or night and should be considered in the design of the Facility. All are measured on a 60 Hz base.

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4.1.4 Voltage Level

All electricity flow across the PCC shall be in the form of single-phase or three-phase 60 Hz alternating current at a voltage class determined by mutual agreement of the Parties.

4.1.5 Machine Reactive Capability

Facilities less than 1 megawatt ("MW") will not be required to provide reactive capability, except as may be provided by the retail rate schedule and Terms and Conditions for Distribution Services under which the Customer takes service.

Facilities greater than or equal to 1 MW interconnected with the Company EPS shall be required to provide reactive capability to regulate and maintain EPS voltage at the PCC as per NEPOOL requirements. The Company and NEPOOL shall establish a scheduled range of voltages to be maintained by the Facility. The reactive capability requirements shall be reviewed as part of the Impact Study and Facilities Study.

4.2 Protection Requirements For New or Modified Facility Interconnections with the EPS**4.2.1 General Requirements**

Any Facility desiring to interconnect with the Company EPS or modify an existing interconnection must meet minimum specifications, where applicable, as set forth in the following documents and standards and requirements in this Section.

- IEEE P1547 Standard for Distributed Resources Interconnected with Electric Power Systems.

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Issued per Order of D.T.E. 02-38-B
dated February 24, 2004

Date Effective April 1, 2004

WMECO Revised Compliance Tariff; DTE 02-38.doc